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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/675,136

09/30/2003

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66329/31246

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23380 7590 06/13/2008
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EXAMINER

ROBINSON, MYLES D

ART UNIT

PAPER NUMBER

2625

NOTIFICATION DATE

DELIVERY MODE

06/13/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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| | | | |
|------------------------------|--------------------------------------|--------------------------------------|--|
| Office Action Summary | Application No. 10/675,136 | Applicant(s) KUWATA ET AL. | |
| | Examiner Myles D. Robinson | Art Unit 2625 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3 - 10 and 12 - 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3 - 10 and 12 - 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 March 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendment was received on 3/12/2008, and has been entered and made of record. Currently, **claims 1, 3 – 10 and 12 – 18** are pending.

Response to Arguments

2. Applicant's arguments (*see Interview Summary 3/4/2008 and Remarks 3/12/2008 [page 8]*) with respect to the rejection(s) of **claims 1, 3 – 10 and 12 – 18** under 35 U.S.C. §102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of **Shimori** (U.S. Patent No. 7,010,587) and **Chan et al.** (U.S. Patent No. 6,073,147).

Drawings

3. The drawings were received on 3/12/2008. These drawings are acceptable.

Claim Rejections - 35 USC § 102

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. **Claims 1, 3, 8, 10, 12 and 17** are rejected under 35 U.S.C. 102(b) as being anticipated by **Chan et al.** (U.S. Patent No. 6,073,147).

Referring to **claim 1**, Chan discloses a networked font rendering system associated with a web server (see *Figs. 1 – 2 wherein font server 20 is connected via the networked communication path 10 [i.e. Internet] [column 3, lines 25 – 29]*) comprising:

means adapted for acquiring vector data representative of a vector based font (see *Fig. 2 wherein computer 12 acquires font data from font server 20 in regards to document 22 based upon transmitted key pair and then printer 16 acquires font data from font server 20 [column 3, line 62 – column 4, line 9] and see column 3, lines 30 – 45 wherein fonts in outline form or generated as outline glyph data are analogous to vector based fonts*),

rendering means adapted for rendering at least a portion of the vector based font to generate font images corresponding thereto (see *Fig. 3 wherein fonts are rendered in font server 20 according to scale in step 46 as shown in Fig. 4C [column 5, lines 1 – 34 and 52 – 55] and wherein fonts are generated into characters in step 28 in computer 12 [column 4, lines 23 – 26 and column 5, lines 47 – 51]*),

font storage means adapted for storing the font images on a networked memory (see *Fig. 1, database 21 [column 3, lines 54 – 61] and see column 3, lines 46 – 48 wherein computer nodes 12 also store fonts on the network*),

means adapted for receiving a font request from a web browser via at least one networked workstation (see *Figs. 1 – 2 wherein computer 12 is connected to font server 20 via the Internet [column 3, lines 25 – 29] such that web browsers which allow the user to remotely interact with the font server 20 from computer 12 are inherently*

disclosed and further suggested in Chan because the user may download document 22 from computer 12 using a site on the Internet [via a web browser] [column 4, lines 10 – 14 and column 6, lines 6 – 12]),

testing means adapted for testing for a presence of a rendered font in the font storage means in accordance with the received font request (see Fig. 3 wherein steps 24 – 26 test local storage on computer nodes 12 [column 4, lines 14 – 23] and wherein step 36 tests remote storage on font server 20 [column 5, lines 35 – 38]),

means adapted for commencing operation of the rendering means upon a determination by the testing means that no font image corresponding to the font request is present in the font storage means (see Fig. 3 wherein computer 12 sends key pair to font server 20 in step 32 when the font is not stored locally [column 4, lines 26 – 29] and wherein font server 20 returns an error message to computer 12 in step 38 and then provides a substitute character in step 42 when the font is not stored remotely [column 3, lines 48 – 53 and column 5, lines 38 – 51]),

means adapted for adding rendered font data from the rendering means to the networked memory (see Fig. 3 wherein computer 12 stores new font data from font server 20 in step 50 [column 5, lines 56 – 59]), and

communication means adapted for selectively communicating the font images from the font storage means to the at least one networked workstation to generate document print data in accordance with a request from the at least one networked workstation so as to generate an image on a display of the at least one networked workstation including a rendering from the font images (see Fig. 3 wherein heavy lines

between steps 38 and 40 and 48 and 40 represent the communication from font server 20 to computer 12 such that either the rendered font data is returned as in step 48 or the error message indicating the use of a substitute character is returned as in step 38 [column 3, line 46 – column 4, line 7]).

Referring to **claim 3**, Chan discloses the system further wherein the communication means includes means adapted for communicating the font images to an associated printing device (see *Fig. 1, network printer 16, local printer 14*).

Referring to **claim 8**, Chan discloses the system further comprising updating means adapted for updating font storage means for selected font information received in the font request from the at least one networked workstation (see *Fig. 3 wherein the local storage of computer 12 is updated in step 50 [column 5, lines 56 – 59]*).

Referring to **claims 10, 12 and 17**, the rationale provided in the rejection of claims 1, 3 and 8, respectively, are incorporated herein. In addition, the systems of claims 1, 3 and 8 perform the methods of claim 10, 12 and 17, respectively.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. ***Claims 1, 3 – 10 and 12 – 18*** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Shiimori** (U.S. Patent No. 7,010,587).

Referring to **claim 1**, Shiimori discloses a networked font rendering system associated with a web server (see *Fig. 1 wherein server 30 is connected via the Internet*) comprising:

means adapted for acquiring data representative of a font (see *Fig. 9 wherein text information comprising style information is analogous to data representative of a font [column 7, lines 1 – 5], see Fig. 8 wherein style information shown in areas 72 – 79 is selected by the user [column 5, lines 56 – 58 and column 5, line 64 – column 6, line 20], see Figs. 4 – 5 wherein the server 30 acquires font information indicative of fonts usable at client computer 1 in step 44 [column 4, lines 56 – 62] and see Figs. 4 and 10 wherein client computer 1 acquires the font list from server 30 in steps 45, 93 and 94 [column 5, lines 7 – 10 and column 7, lines 42 – 57]*),

rendering means adapted for rendering at least a portion of the vector based font to generate font images corresponding thereto (see *Fig. 3 wherein server 30 renders requested fonts which commiserate with client computer 1 [column 2, lines 1 – 16]*),

font storage means adapted for storing the font images on a networked memory (see *Fig. 3 wherein server 30 stores fonts within their respective font files associated with particular operating systems and types of documents on a hard disk drive [column 2, lines 59 – 60 and column 4, lines 16 – 22]*),

means adapted for receiving a font request from a web browser via at least one networked workstation (see *Fig. 4 wherein client computer 1 [i.e. networked workstation] communicates with server 30 to access and display a home page [i.e. a*

web page via a web browser] in steps 41, 51 and 42 [column 4, lines 39 – 51] and see Figs. 11 – 14 for embodiments of the home page),

testing means adapted for testing for a presence of a rendered font in the font storage means in accordance with the received font request (see Fig. 4 wherein step 52 [column 2, lines 32 – 46, column 4, line 65 – column 5, line 1] and step 92 of Fig. 10 [column 7, lines 34 – 39] wherein server 30 searches font files based upon the particular operating system and document type requested),₁

means adapted for commencing operation of the rendering means upon a determination by the testing means that no font image corresponding to the font request is present in the font storage means (column 2, lines 26 – 31, column 3, lines 34 – 40, column 8, lines 21 – 23 and 33 – 40 wherein the user may register, or add, a new font via the home page shown in Fig. 13 if and when it is determined that that specific font is not associated, or presently stored within a font file, for a particular operating system and document type as shown in Fig. 3),₁

means adapted for adding rendered font data from the rendering means to the networked memory (see Fig. 12, add area 107 [column 8, lines 25 – 27], see Fig. 13 [column 2, lines 26 – 31 and column 8, lines 33 – 45] and see Fig. 14 [column 8, lines 48 – 57]),₁ and

communication means adapted for selectively communicating the font images from the font storage means to the at least one networked workstation to generate document print data in accordance with a request from the at least one networked workstation so as to generate an image on a display of the at least one networked

workstation including a rendering from the font images (see *Fig. 4 wherein steps 53, 45 [column 5, lines 1 – 10] and steps 93 – 94 of Fig. 10 [column 7, lines 42 – 57] transmit rendered fonts in a font list from server 30 for display on client computer 1 as shown in sample column of Fig. 12 associated with the name of the particular font [column 8, lines 16 – 23]*) but does not explicitly disclose the system further wherein the font is a vector based font.

However, the Examiner takes Official Notice that the usage of vector based fonts, which are also known as outline fonts or scalable fonts, is well known and conventional.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to render vector fonts for printing document since the Examiner takes Official Notice that vector fonts require less memory space than fonts based on bitmap images and vector fonts can be more easily be rescaled to generate any size character than bitmap fonts.

.Referring to **claim 3**, Shiimori discloses the system further wherein the communication means includes means adapted for communicating the font images to an associated printing device (see *Fig. 1, printer 31*).

Referring to **claim 4**, Shiimori discloses the system further wherein the means adapted for receiving the font request from the at least one networked workstation includes:

means adapted for prompting an associated user for selection data to select a font (see *Fig 4, step 43 [column 4, lines 51 – 58] and see Fig.. 12 [column 8, lines 16 – 23]*),

means adapted for receiving user selection data resultant from the prompt of the user for the font (see Fig. 4, step 52 [column 4, line 65 – column 5, line 1] and see Fig. 10, step 91 [column 7, lines 31 – 39]), and

means adapted for requesting the font in accordance with the user selection data (see Fig. 10, step 92 [column 7, lines 31 – 41]).

Referring to **claim 5**, Shiimori discloses the system further wherein the means adapted for prompting the associated user for selection data to select the font includes means adapted for displaying selected information about each font which is available for selection (see Fig. 12 wherein the window displays name of font, a sample of that particular font which is analogous to selected information about each font available [i.e. fonts of client computer 1 which are compatible fonts of server 30] [column 8, lines 16 – 23]).

Referring to **claims 6 and 7**, Shiimori discloses the system further wherein the means adapted for displaying selected information about each font includes at least one of font type, font size, font style, tab information, location of font within document and font style for each font, or font format (see Fig. 9 wherein text information comprising combining-position information [i.e. location of font within document] style information [i.e. font name, font size, text color, font styles such as italics or underlined, etc.] is analogous to data representative of a font [column 7, lines 1 – 5] and see Fig. 8 wherein style information shown in areas 72 – 79 is selected by the user [column 5, lines 56 – 58 and column 5, line 64 – column 6, line 20]).

Referring to **claim 8**, Shiimori discloses the system further comprising updating means adapted for updating font storage means for selected font information received in the font request from the at least one networked workstation (see *Fig. 14 [column 8, lines 48 – 57]*).

Referring to **claim 9**, Shiimori discloses the system further comprising means adapted for deleting selected font information from the font storage means upon at least one of a predetermined time interval in which the font has not been requested and a request received from an associated user (see *Fig. 12 wherein the user requests to delete a particular font by checking the appropriate box B3 and area 108 [column 8, lines 16 – 23 and 27 – 30]*).

Referring to **claims 10 and 12 – 18**, the rationale provided in the rejection of claims 1 and 3 – 9, respectively, are incorporated herein. In addition, the systems of claims 1 and 3 – 9 perform the methods of claim 10 and 12 – 18, respectively.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takeda (Japanese Patent No. 61-097739) discloses a printer external character method which deletes external character codes successively in order of lower usage frequency when an external character table has no idle area when registering new external characters (see *Abstract*).

Collins et al. (U.S. Patent No. 5,781,714) disclose methods for creating and using portable fonts wherein a requesting computer asks a responding Internet server via a web page for one or more portions of text wherein the server reacts by sending the request text (*see Abstract and Fig. 22*).

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myles D. Robinson whose telephone number is (571)272-5944. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler L. Haskins can be reached on (571) 272-7406. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Myles D. Robinson/
Examiner, Art Unit 2625
6/7/08

/Twyler L. Haskins/
Supervisory Patent Examiner, Art Unit 2625